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M. F. Kleyn, J. C. Browne

May 1993 **Proceedings of the 15th international conference on Software Engineering**Full text available: [pdf\(1.30 MB\)](#)Additional Information: [full citation](#), [references](#)

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G. K. Khalsa

July 1989 **Proceedings of the sixth Washington Ada symposium on Ada**Full text available: [pdf\(916.65 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Gio Wiederhold, Peter Wegner, Stefano Ceri

November 1992 **Communications of the ACM**, Volume 35 Issue 11Full text available: [pdf\(3.93 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** mega programming languages and systems

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John A. Anderson, Lance Holland, Jane McDonald, Elaine Scranage

July 1989 **Proceedings of the sixth Washington Ada symposium on Ada**Full text available: [pdf\(772.69 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 25 [A graph-oriented object database model](#)

Marc Gyssens, Jan Paredaens, Dirk van Gucht

April 1990 **Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**


Full text available:  [pdf\(915.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A simple, graph-oriented database model, supporting object-identity, is presented. For this model, a transformation language based on elementary graph operations is defined. This transformation language is suitable for both querying and updates. It is shown that the transformation language supports both set-operations (except for the powerset operator) and recursive functions.

26 **HyperWeb: a framework for hypermedia-based environments**

James C. Ferrans, David W. Hurst, Michael A. Sennett, Burton M. Covnot, Wenguang Ji, Peter Kajka, Wei Ouyang

November 1992 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fifth ACM SIGSOFT symposium on Software development environments**, Volume 17 Issue 5


Full text available:  [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software productivity and quality will increase as we improve our model of software and develop tools to support that model. Development environments must take into account that software is more than source; that it is more than text; and that it forms a highly interconnected web of information. Because more time is spent understanding and maintaining software than creating it, environments should strongly support browsing and reading. Finally, environments must be easy to customize. ...

27 **Object operations benchmark**

R. G. G. Cattell, J. Skeen

March 1992 **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Full text available:  [pdf\(2.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Performance is a major issue in the acceptance of object-oriented and relational database systems aimed at engineering applications such as computer-aided software engineering (CASE) and computer-aided design (CAD). Because traditional database systems benchmarks are inappropriate to measure performance for operations on engineering objects, we designed a new benchmark Object Operations version 1 (OO1) to focus on important characteristics of these applications. OO1 is descended from an earlier ...

**Keywords:** CAD, CASE, client-server architecture, engineering database benchmark, hypermodel, object operations benchmark, object-oriented DBMS's, relation of DBMS's, workstations

28 **A reuse experiment in the social security sector**

S. C. Chang, A. P. M. Groot, J. C. van Vliet, E. Willemsz, H. Oosting

April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**


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Andrew R. Carmichael

December 1992 **Proceedings of the conference on TRI-Ada '92**

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A. von Mayrhauser

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Bill Curtis, Marc I. Kellner, Jim Over

September 1992 **Communications of the ACM**, Volume 35 Issue 9Full text available:  pdf(3.56 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**Keywords:** analysis, modeling**32** Information systems modeling: an object oriented development method

William R. Bitman

July 1992 **Proceedings of the ninth Washington Ada symposium on Ada: Empowering software users and developers**Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [references](#)**33** Objects for changeable systems

Magnus Christerson

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Joachim Altmeyer, Bernd Schürmann, Martin Schütze

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**Full text available: [pdf\(60.96 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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Joachim Altmeyer, Bernd Schürmann, Martin Schütze

January 1995 **Proceedings of the 32nd ACM/IEEE conference on Design automation**

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<sup>2</sup> An object-oriented, distributed architecture for large-scale Ada systems

Phillipe Kruchten, Christopher J. Thompson

November 1994 **Proceedings of the conference on TRI-Ada '94**Full text available:  pdf(1.14 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

This paper presents an architectural model ideally suited for the description of large, distributed command and control systems. This model is organized around multiple dimensions (or views) of software architecture and is used to describe the software architecture of a family of automated air traffic control systems currently under development by Hughes Aircraft of Canada. Some of the features of this family of systems are described, and in particular the mechanism used for transparent acc ...

### <sup>3</sup> Preliminary defect data from the iterative development of a large C++ program (experience report)

James F. Walsh

October 1992 **ACM SIGPLAN Notices**, conference proceedings on **Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10

Full text available:  pdf(644.66 KB)

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Ronald P. Loui

March 1988 **Proceedings of the 2nd conference on Theoretical aspects of reasoning about knowledge**Full text available: [pdf\(348.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

I mention two methodological problems with AI's study of inference that have to do with excessive faith in classical logic. The first is the familiar bias toward formalisms that incorporate deductive patterns of argument: a bias against inductive patterns of reasoning. The second is the pretension that inference can be studied with no regard for one's habits of representation.

By implicating Frege, I am not trying to argue an historical thesis, but I will explain why I think of Levi's ...

**2 [Object oriented method for Axiom](#)**

Jean-Louis Boulanger

February 1995 **ACM SIGPLAN Notices**, Volume 30 Issue 2Full text available: [pdf\(708.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Axiom<sup>1</sup> is a very powerful computer algebra system which combines two languages paradigms (functional and OOP). Mathematical world is complex and mathematicians use abstraction to design it. This paper presents some aspects of the object oriented development in Axiom. The axiom programming is based on several new tools for object oriented development, it uses two levels of class and some operations such that *coerce*, *retract* or *convert* which permit the type evolution. These ...

**Keywords:** coercion, functional language, object oriented development, simple and multiple inheritance

**3 [Panel Session: Knowledge, representation, and rational self-government](#)**

Jon Doyle

March 1988 **Proceedings of the 2nd conference on Theoretical aspects of reasoning about knowledge**Full text available: [pdf\(608.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

It is commonplace in artificial intelligence to draw a distinction between the explicit knowledge appearing in an agent's memory and the implicit knowledge it represents. Many AI theories of knowledge assume this representation relation is logical, that is, that implicit knowledge is derived from explicit knowledge via a logic. Such theories, however, are limited in their ability to treat incomplete or inconsistent knowledge in useful ways. We suggest that a more illuminating theory of nonlog ...

#### 4 Iterative development/OO: the bottom line

J. O. Coplien, Susana Hutz, Brent Marykuca

December 1992 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 4 Issue 2

Full text available:  [pdf\(927.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A combined workshop drawing on the faculties of the established "The Bottom Line: Using Object-Oriented Development in the Commercial Environment" workshop and the new "Development Processes for Use of the Object Paradigm" covered issues of process, architecture, and tool support for iterative development. Keynote talks described: • far-reaching multidimensional development methods •the problems of semantic cou ...

#### 5 Concepts of object-oriented programming (abstract)

Raimund K. Ege

December 1992 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 4 Issue 2

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Concepts of Object-Oriented Programming  
Raimund K. Ege, Florida International University

This tutorial defines and teaches the basic concepts of environment, and gives an overview of the features of object-oriented programming, illustrates the object-oriented languages and environments. This advantages of object-oriented techniques over tutorial will let you make an informed decision conventional programming, introduces the about what language/environment will best serve ...

#### 6 The type inference and coercion facilities in the scratchpad II interpreter

R. S. Sutor, R. D. Jenks

July 1987 **ACM SIGPLAN Notices , Papers of the Symposium on Interpreters and interpretive techniques**, Volume 22 Issue 7

Full text available:  [pdf\(668.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The Scratchpad II system is an abstract datatype programming language, a compiler for the language, a library of packages of polymorphic functions and parametrized abstract datatypes, and an interpreter that provides sophisticated type inference and coercion facilities. Although originally designed for the implementation of symbolic mathematical algorithms, Scratchpad II is a general purpose programming language. This paper discusses aspects of the implementation of the interpreter and how it at ...

#### 7 K: a high-level knowledge base programming language for advanced database applications

Yuh-Ming Shyy, Stanley Y. W. Su

April 1991 **ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD international conference on Management of data**, Volume 20 Issue 2

Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 8 A gentle introduction to Haskell

Paul Hudak, Joseph H. Fasel


May 1992 **ACM SIGPLAN Notices**, Volume 27 Issue 5

Full text available:  [pdf\(2.98 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

### 9 Type-checking Smalltalk

Ralph E. Johnson

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11


Full text available:  [pdf\(606.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although most attempts to speed-up Smalltalk have focused on providing more efficient interpreters, code optimization is probably necessary for further increases in speed. A type-system for Smalltalk is a prerequisite for building an optimizing compiler. Unfortunately, none of the type-systems so far proposed for Smalltalk are adequate; they either cause nearly all Smalltalk programs to be type incorrect, allow run-time type errors, or do not provide enough information for optimization. Thi ...

### 10 Reasoning about object-oriented programs that use subtypes

Gary T. Leavens, William E. Weihl

September 1990 **ACM SIGPLAN Notices , Proceedings of the European conference on object-oriented programming on Object-oriented programming systems, languages, and applications**, Volume 25 Issue 10

Full text available:  [pdf\(1.26 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Programmers informally reason about object-oriented programs by using subtype relationships to classify the behavior of objects of different types and by letting supertypes stand for all their subtypes. We describe formal specification and verification techniques for such programs that mimic these informal ideas. Our techniques are modular and extend standard techniques for reasoning about programs that use abstract data types. Semantic restrictions on subtype relationships guarantee the so ...

### 11 An object-oriented approach to algebra system design

S. K. Abdali, Guy W. Cherry, Neil Soiffer

October 1986 **Proceedings of the fifth ACM symposium on Symbolic and algebraic computation**

Full text available:  [pdf\(816.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes a new computer algebra system design based on the object-oriented style of programming and an implementation of this design, called Views, written in Smalltalk-80. The design is similar in goals to other 'new' generation computer algebra systems, by allowing the runtime creation of computational domains and providing a way to view these domains as members of categories such as 'group', 'ring' or 'field'. However, Views introduces severa ...

### 12 A shared, segmented memory system for an object-oriented database

Mark F. Hornick, Stanley B. Zdonik

January 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 1


Full text available:  [pdf\(2.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This paper describes the basic data model of an object-oriented database and the basic architecture of the system implementing it. In particular, a secondary storage segmentation scheme and a transaction-processing scheme are discussed. The segmentation scheme allows for arbitrary clustering of objects, including duplicates. The transaction scheme allows for many different sharing protocols ranging from those that enforce serializability to those that are nonserializable and require communi ...

### 13 Type checking records and variants in a natural extension of ML

D. Rémy

January 1989 **Proceedings of the 16th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**

Full text available:  [pdf\(948.21 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Strongly typed languages with records may have inclusion rules so that records with more fields can be used instead of records with less fields. But these rules lead to a global treatment of record types as a special case. We solve this problem by giving an ordinary status to records without any ad hoc assertions, replacing inclusion rules by extra information in record types. With this encoding ML naturally extends its polymorphism to records but any other host language wi ...

### 14 Draft report on requirements for a common prototyping system

R. P. Gabriel

March 1989 **ACM SIGPLAN Notices**, Volume 24 Issue 3

Full text available:  [pdf\(4.76 MB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

### 15 Maintaining consistency in a database with changing types

Stanley B. Zdonik


June 1986 **ACM SIGPLAN Notices , Proceedings of the 1986 SIGPLAN workshop on Object-oriented programming**, Volume 21 Issue 10

Full text available:  [pdf\(653.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 16 The management of changing types in an object-oriented database

Andrea H. Skarra, Stanley B. Zdonik

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications**, Volume 21 Issue 11

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We examine the problem of type evolution in an object-oriented database environment. Type definitions are persistent objects in the database and as such may be modified and shared. The effects of changing a type extend to objects of the type and to programs that use objects of the type. We propose a solution to the problem through an extension of the semantic data model. A change in the interface defined by a type may result in errors when programs use new or old objects of the ty ...

### 17 Foundations for the Arcadia environment architecture

Richard N. Taylor, Frank C. Belz, Lori A. Clarke, Leon Osterweil, Richard W. Selby, Jack C. Wileden, Alexander L. Wolf, Michael Young

November 1988 **Proceedings of the third ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments**, Volume 13 , 24 Issue 5 , 2

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Full text available:  [pdf\(2.01 MB\)](#)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Early software environments have supported a narrow range of activities (programming environments) or else been restricted to a single "hard-wired" software development process. The Arcadia research project is investigating the construction of software environments that are tightly integrated, yet flexible and extensible enough to support experimentation with alternative software processes and tools. This has led us to view an environment as being composed of two ...

**18 Functions as passive constraints in LIFE**

Hassan Aït-Kaci, Andreas Podelski

July 1994 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 16 Issue 4

Full text available:  [pdf\(2.62 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

LIFE is a programming language proposing to integrate logic programming, functional programming, and object-oriented programming. It replaces first-order terms with  $\lambda$ -terms, data structures that allow computing with partial information. These are approximation structures denoting sets of values. LIFE further enriches the expressiveness of  $\lambda$ -terms with functional dependency constraints. We must explain the meaning and use of functions in LIFE declaratively, as solving partial information ...

**Keywords:**  $\lambda$ -terms, committed-choice languages, concurrent constraint programming, coroutining, first-order terms, matching, relative simplification, residuation, unification

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